


- 
- **Network Forecasting, Availability and Utilization of Interconnection Trunks are provided in a non-discriminatory manner.**
 - **Forecasting and Design: Planning Process that precedes initial orders for trunks**

Forecasts developed by both CLECs and BA-NY for future needs

Engineering requirements for the network defined


Equipment needs identified based on total forecast

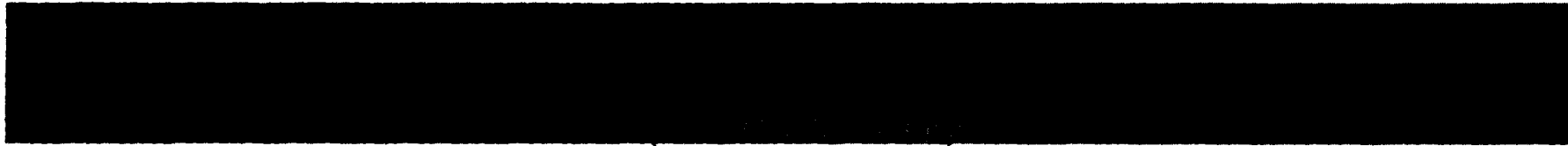
Orders placed with manufacturers

Installation of equipment on delivery

Trunks provisioned based on date of service request

Trunk design and equipment exactly equal whether CLEC or BA-NY

- 
- **Lack of Forecasts from CLECs at times hindered network availability in 1997**
 - **To gain common ground on forecasting, mutual process developed by CLECs/BA-NY via NYPSC Case-C-0139**
 - **To overcome the lack of forecasts and the held orders that evolved from this, BA-NY made extensive infrastructure additions for 1997-98**
 - **Extensive spare capacity now available at 53,472 Trunks.**
 - **Network buildout for 1998 will provide 335,472 available trunks, more than double the 1998 forecast of 129,000 Trunks**

- 
- **Even with these expansive BA-NY infrastructure additions, CLECs have current spare capacity in their network. Roughly 20% of all their current trunks are not carrying traffic.**
 - **CLEC's have utilization rates on their network of 51%**
 - **CLECs currently have 14% of all known local trunks in the NY Metro Area 110,215 CLEC trunks to 703,899 BA-NY trunks.**



- Through a proactive network management process, call blocking has been eliminated as a CLEC concern.
- December 1997 blocking rates are better than objective levels of 2%:

	<u>% of Groups exceeding 2% blocking</u>
CLEC/BA-NY Shared/Common Transport (E.O to Tandem):	1.48
CLEC FINAL Groups (Tandem to POP):	1.67

- Only blocking problems are being caused by a lack of CLEC facilities to handle trunk augmentations requested by BA-NY, currently there are 9,007 trunks that BA-NY cannot install due to the CLEC's lack of facilities or readiness.





- **Provisioned 78,600 trunks in 1997, 121,600 overall**
- **On time Performance of 98% For CLEC trunks**
- **Installation Intervals reduced in 4th Qtr to 34 Days overall**
- **Held orders reduced to zero**
- **Spare capacity on hand now to handle 1998 forecast through Oct '98**
- **1998 infrastructure additions will allow BA-NY to handle more than double the 1998 forecast of 129,000 Trunks if necessary.**
- **Forecasting process and measurement plan developed through NYPSC Case-C-0139.**
- **Network Blocking on CLEC/BA-NY Shared/Common Groups at 1.5% of Groups**
- **Network Blocking on CLEC Finals at 1.6% of Groups**





Poles, Conduit, Rights-of-Way Checklist Compliance

J. L. White

February 2, 1998





Checklist Compliance

Section 251(b)(4) of the Telecommunication Act of 1996 (the "Act") imposes on each local exchange carrier ("LEC") the duty to "afford access to the poles, ducts, conduits, and rights-of-way of such carrier to providers of telecommunications services on rates, terms, and conditions that are consistent with sections 224."

YES

No





New York Statistics

• Poles

- 1,131,000 Equivalent owned poles by BA-NY
 - 640,000 BA-NY sole owned
 - 945,000 joint owned
- 810,802 Third Party pole attachments
- 335 pole agreements

• Conduit*

- 47,379 duct miles
- 12,259 trench miles
- 543 duct miles licensed
- 55 agreements

• Right of Way

- 70% of facilities on public right of way
 - Transportation Corp. law confers rights
 - Highway law provides requirements
- 30% of facilities on private property
 - Easements, Short form ROW's, 90 day Revocable & Verbal

* Does not include Empire City Subway



Empire City Subway

- **Conduit (Manhattan/Bronx)**

Installed --	10,106 miles
Occupied --	7,900 miles
BA-NY --	6,708 miles
NYC --	634 miles
Other --	643 miles

MCI	ATT	Paragon	Time Warner	Sprint
MFS	NYU	Teleport	Cablevision	Nat Fbr Ntwk


- **Franchise**

Granted by NYC in 1881 for the construction of subsurface low voltage communication conduit.

- **Regulation**

Empire City is regulated by the City of New York Department of General Services





Regulation

- **Pole Attachments**

- Space provided on "first come first serve" basis

- PSC Tariff No. 900

- Identifies fees that apply to licenses granted in accordance with attachment agreement.

- PSC Opinion 77-1 issued in Case 26494

- Standards for Utility Pole Attachment Agreements.

- PSC Case No. 95-C-0341

- Operational issues and pole attachment rates proceeding closed 7/17/97.

- Cost Causer for Modifications

- FCC attachment rate formula

- **Conduit Use**


- PSC oversight of rates, terms and conditions of use


- Agreements on file with PSC

- Space provided on "first come first serve" basis

- Equal Access Provider based on rates submitted

- Process similar to pole attachments





Regulation (continued)

- **Right of Way**

- Transportation Corporation's Law

- Highway Laws - Utility Accommodation

- Municipal/Local Laws/Requirements

- Municipal Franchise Agreements

- Responsibility of Applicant to secure ROW or necessary permits

- On Public property, covered under Highway Law as a utility

- On Private property, "Hoffman Case" may apply



Open for Business

- **Pole Attachees**

8 Major Power Companies throughout the State
Municipalities throughout the State
Communication & CATV Attachees

Teleport	TCI	TKR	AR Cable	New Channel	Brooks Fiber Properties
MFS	Cablevision	Paragon	Adelphia	Cox	MCI
AT&T	Time Warner	A-R Cable	Castle	V-Cable	
TCI	CVI	CTEC	Harron	US Cable	
Simmons	Corney	El Mar	ACC	Harron	
American	Queen In City	B Q Cable	Hornell	Auburn	
Continental	Extel Com.	Notheast	Vidacable	Park Cable	
CVI	New Channels	Milestone	C.C.S. Acqu	U.F.S.D. West Islip	

- **Conduit & Duct Lessees**

N. E. Ntwk	New Channels	Time Warner	SI Cable	SUNY	Brooks Fiber Properties
Teleport	TCI	Frontier	A-R	V Cable	MCI
MFS	Western Union	Ameri. Cable	Advantis	CVI	
AT&T	NFN	Cox	IBM	U.F.S.D. West Islip	
MCI	WillTel	CableVision	BQ Cable	Cablevision Lightpath	

- **Right of Way (Private)**

No CLECs have requested access to BA-NY Rights of Way



POLE ATTACHEES

Cablevision of Easthampton, C.C.S. Acquisition NY, Inc., T.C.I. Brookhaven, V-Cable Inc., Cablevision of Islip, West Islip U.F.S.D., Cablevision Systems Corp. of Suffolk, North Fork Bank, Hazeltine Corp., Village of Babylon C. of C., Village of Ocean Beach, Dowling College, Southold Savings Bank, Village of Port Jefferson, Mastic Fire Dept., Suffolk County Water Authority, Riverhead Chamber of Commerce, Village of Saltaire Fire Dept., A-R Cable Services, Cox Cable Communications, Arkwin Industries, Global Equipment/Furniture, Harry Bender Agency, Chase Manhattan Bank, Harmon Associates Corp., Ellman International Inc., Acclaim Enterprises, Bethpage Chamber of Commerce, Barnum Island Fire Dept., Massapequa Fire Dept., Cablevision Systems Corp. of Nassau, Buffalo A-R Services, Adelphia Aurora, Adelphia Chautauqua, Adelphia Harborvue, Adelphia International, Adelphia Niagara, Cablevision Industries, Cooney Cable Associates, El Mar Communications, Greater Rochester Cable, Hometown Cable Vision, Jones Intercable, Simmons Communications, TCI of Buffalo, Inc., Time Warner Cable, US Cable Evangola, US Cable Tri-County, Adams Fire Company, Annunciation Church, Bolivar Richburg Schools, The Carborundum Co., Cattaraugus County DPW, Children's Hospital, Excelco Developments, Inc., Occidental Chemical, OLV Homes, Rich Products, Roswell Park, Sonwil Dis. Center, St. Augustines, Summermatter, City of Tonawanda, Auburn Cable, Cablevision-Fingerlakes, Cayuga County Legislature, Cornell University, Corning, Inc., Harron Communications, Hornell Television, Onondaga Co. Sheriff's, Paragon Cable-Oswego, University Radiology Assoc., Time Warner -Camillus



POLE ATTACHEES

Time Warner-Binghamton, Time Warner-Corning, Time Warner-City of Corning, Westchester A-R Cable, American Cable Svcs., Cablevision of Conn., Cablevision of NYC, Cablevision of Westchester, Community Cable Service, Continental Cable, C-Tec Cable System, Paragon Cable, TCI Cable of Westchester, TKR Cable of Ramapo, TKR Cable of Rockland, TKR Cable of Warwick, U.S. Cablevision, Abbott House, Cablevision Industries, Extel Communications, IBM, Iona College, Lamont Doherty, Lincoln Hall, Northeast Networks Town of Greenburg, Town of Spring Valley, Sutom Properties, U.S. Regulatory, Advantis, Brooklyn/Queens Cable, Staten Island Cable, Cablevision, American Cablevision of Queens, Melville Office Center, Cablevision System Co., TCI, Brookhaven, Armstrong Mold Corp., Auburn Cablevision, Bassett Hospital, Bath Central School District, C.O.D. Realty, Gault Chevrolet Company, Halley Electric Company, Village of New Hyde Park, Village of Mineola, Village of Hempstead, Town of North Hempstead, Town of Hempstead, Village of Cedarhurst, Village of Lake Success, Village of Great Neck, Village of Lawrence, Village of Lynbrook, Village of Westbury, Village of Great Neck Plaza, Village of Russell Gardens, Village of Valley Stream, Village of Farmingdale, Village of Amityville, Village of Island Park, Village of Bayville, Village of Massapequa Park, City of Glen Cove, Village of Muttontown, Village of Roslyn, Town of Oyster Bay, Village of Port Washington North, Village of Garden City, Village of East Williston, Village of Stewart Manor, Village of Sea Cliff, Village of Thomaston, Village of Williston Park, Village of Atlantic Beach, Village of Floral Park, Village of Manorhaven




POLE ATTACHEES

Saddle Rock, Village of Lattington, City of Long Beach, Village of Old Brookville, Village of Malverne, Village of Great Neck Estates, Village of South Floral Park, Village of Hewlett Bay Park, Village of Brookville, Village of Woodsburgh, Village of Upper Brookville, Village of Cove Neck, Village of Matinecock, Village of Oyster Bay Cove, Village of Roslyn Estates, Village of Roslyn Harbor, Village of Plandome Manor, Village of Plandome Heights, Village of Munsey Park, Village of Center Island, Wayne County Dept. of Buildings & Ground, Union Endicott Central School District, Finger Lakes Cable Corp., State of NY Psychiatric Center, Rural TV, Rotelcom, Phoenix Cable, Paragon Cable - Elmira Division, Paragon Cable, P & C Food Markets, Oneida Ltd., Northern Steel Corp., Newark Central School, New Channels Corp., New Channels Corp. - Corning, Mid Hudson Cable Vision, Hornell Television Service, Harron Communications Corp., Halley Electric,, Haefele TV Inc., E.H. Titchener & Company, D.W.S. Construction Company, County Cable, Cooney Cable, Castle Cable, Cabelvision Industries - Chittenango, Cablesystem of Watertown, Cable Vision Industries, Bloomville Cable, Cablevision of Dutchess, Paragon Cable, TCI Kingston, Cablevision Walden, Cablevision Olive, CVI Saugerties, Vidacable CATV, Cablevision Orange, Cablevision Saugerties, TCI Poughkeepsie, US Cablevision, Cablevision Sullivan, Park Cable, CTEC Cable Systems, Robert Green Chevrolet, SYDA Foundation, Simmons Communications, Norstar Bank, Keybank of South Eastern NY, Historic H/V Radio, Huck Manufacturing, Brooks Fiber Properties, MCI



POLE ATTACHEES


Frontier Insurance Company, Sullivan County BOCES, Cablevision Brooklyn/SI, SI Cable, Cablevision Lightspan, Melville Office Center, Cablevision System Company, TCI Brookhaven, V Cable Inc., Cablevision, Cable of Long Island, Town of Huntington, Town of Smithtown, Town of Brookhaven, Town of Southold, Town of Babylon, Town of Islip, A-R Cable Services of Central NY, A-R Services, Inc., Adelphia Cable Central Area, Agway, Inc., American Community Cablevision, AR Cable Services, Armstrong Mold Corp., Auburn Cablevision, Bassett Hospital, Bath Central School District, Bath Television & Service Company, Bloomville Cable, C.O.D. Realty, Cable Vision Inc., Cable Vision Industries, Cablesystems of Watertown, Castle Cable TV Inc., County Cable, DWS Construction, New Channels Corp., A-R Services of Northeast, Cable Communication - Willsboro, CVI - Liberty, CVI - Saratoga, CVI - Saugerties, Chsmplain NewChannels, DWS Construction of Northeast, First Carolina, Gateway Cablevision, Harron Communications, Hoosick Cablevision, Hudson Valley, James Feeney & Associates, Keene Valley Video, Mahoney Notifier, Mid-Hudson Cable, Milestone Communication, New Channels - Battenkill, New Channels - Malone, New Channels - Troy, Plattsburgh Cablevision, Princetown Cable, Resort Cablevision, RPI, Schenectady Cable, Taconic Technology, Time Warner - Albany, Word of Life, SUNY Albany, Queens Inner City Cable, American Cablevision, B.Q. Cable, IBM, American Cable - Westchester, Northeast Networks, Abbott House, Extel Communications, Iona College, Lamont Doherty, Lincoln Hall, Northeast Networks, Town of Greenburg, Town of Spring Valley, Sutom Properties, U. S. Regulatory, Village of Laurel Hollow, Village of Dering Harbor, Village of Saltaire




The Defined Process


- Application for Attachment
- Specification Requirements
- Insurance and Surety Requirements
Pre-Construction Survey New Construction
- Overlashing Notification
- Self Survey when Overlashing
- Make Ready Work
- Inspection of Licensee's Facilities





Degree of Assignability

- Public -- None (Must have franchise or be Transportation Corporation for Statutory Right to Public ROW)
 - Private -- Case by Case
 - 25% Easements
 - If CLEC Attachment -- probably OK
 - BA-NY existing easement assignability does not cover CLEC placement of structures
 - 75% Other
 - Right of Way Permissions -- No Assignment, Facility Specific and are Revocable
- 



Definitions

- **Utility Pole**

Pole solely or jointly owned by the Licensor (Telephone, Electric or Municipality) -- used to support its facilities, any joint user's and/or authorized licensee's.

- **Pole Attachment**


Any of the Licensee's facilities in direct contact with or otherwise supported by a utility pole. (Commonly referred to as Third Party Attachments)

- **Conduit System**

Any reinforced passage or opening in, on, under/over or through the ground capable of containing communications facilities, and includes: main conduit; underground dips such as short sections of conduit under roadways, driveways, parking lots and similar conduit installations; laterals to poles or into buildings; ducts; and manholes.

- **Right of Way**

Underlying Rights to access our infrastructure.



Signaling and Call Related Databases

- Three Types of Access:
 - Interconnection for the Exchange of Signaling Messages
 - Access to existing Call Related Database Systems
 - Access to Advanced Intelligent Network (AIN) Service Creation and Service Management System (SMS)

Interconnection for the Exchange of Signaling Messages

- BA-NY is exchanging all types of signaling messages with telecommunications carriers
 - Call Set up/Trunk Signaling
 - Services (*69, *66)
 - Call Related Database Services (800, LIDB, AIN, LNP)
- Interconnection established with 14 CLECs
- Currently exchanging both Call Set up (14 CLECs) and CLASS messages (7 CLECs)
- Supporting development of first CLEC AIN Service (AT&T)

Access to Call Related Database Systems

- 800 Database
 - CLEC Access available through national, third party administered Service Management System (SMS) used by LECs and IXC's
- Line Information Database (LIDB)
 - Tariffed BA-NY service to store CLEC information in its LIDB
 - CLEC access to LIDB for data management provided through DCAS (Direct Customer Access System)
- Local Number Portability (LNP)
 - Provides for both CLEC queries for routing information and storage of CLEC routing information

Access to AIN Service Creation and Service Management System

- AIN service creation and provisioning process fully documented
- CLEC Service Creation Environment established Mid-October
 - Service development work station
 - access to test facilities
 - time scheduled on demand
- AIN SMS partitioned and ready to accept CLEC service data
- No CLEC requests for SCE

BA-NY's Section 271 Filing

Local Loop, Switching & Transport Interim Number Portability

Gary Butler

Vice President - Customer Provisioning

February 5, 1998